

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) ~~A Spectrometer~~ spectrometer apparatus ~~including comprising:~~
 - (a) a radiation transparent window for supporting a sample on a surface;
 - (b) an optical system for directing radiation onto the sample through the window at an angle to the normal to the window surface and for receiving radiation reflected from the sample through the window; and
 - (c) ~~wherein the apparatus includes a corrective optics device comprising (i) a wedge-shape prism and (ii) a focusing device intermediate the sample supporting surface and the prism such that the prism is adjacent a focus of the optical system and~~ arranged to increase the accuracy of imaging of the surface of the sample.
2. (Canceled).
3. (Canceled).
4. (Currently Amended) ~~The Spectrometer~~ spectrometer apparatus according to ~~Claim-claim~~ 1, wherein the prism ~~corrective optics device~~ is located to receive radiation from the sample.
5. (Currently Amended) ~~Spectrometer~~ The spectrometer apparatus according to ~~Claim-claim~~ 1, wherein the prism ~~corrective optics device~~ is located adjacent a reflector.
6. (Currently Amended) ~~Spectrometer~~ The spectrometer apparatus according to ~~Claim claim~~ 5, wherein the prism ~~corrective optics device~~ has a reflecting surface formed on a face of the device.
7. (Currently Amended) ~~Spectrometer~~ The spectrometer apparatus according to ~~Claim-claim~~ 1, ~~wherein the apparatus includes~~ further comprising an imaging detector arranged to receive radiation from the optical system.

8. (Currently Amended) ~~Spectrometer~~ The spectrometer apparatus according to ~~Claim-claim 1, wherein the apparatus includes~~ further comprising an arm for applying pressure to the sample to urge the sample into close contact with the window surface.

9. (Currently Amended) An spectrometer system ~~including~~ comprising:
(a) a source of infrared radiation;
(b) an analyser;
(c) an imaging detector; and
(d) an attenuated total reflectance (ATR) unit ~~including~~ comprising (i) a radiation transparent window for supporting a sample on a surface, and (ii) an optical system for directing radiation onto the sample through the window at an angle to the normal to the window surface and for receiving radiation reflected from the sample through the window, _____ wherein the apparatus includes a corrective wedge-shape prism and an imaging lens located between the prism and the window, and _____ wherein the prism is located in the path of radiation to correct focal plane orientation such that it lies closer to the surface of the window.

10. (Currently Amended) An spectrometer system ~~including~~ comprising:
(a) a source of infrared radiation;
(b) an analyser,
(c) an imaging detector and
(d) an attenuated total reflectance (ATR) unit ~~including~~ comprising (i) a radiation transparent window for supporting a sample on a surface, and (ii) an optical system for directing radiation onto the sample through the window at an angle to the normal to the window surface and for receiving radiation reflected from the sample through the window, - _____ wherein the apparatus includes a corrective wedge-shape prism and an imaging lens located between the prism and the window, and _____ wherein the prism is located in the path of radiation to correct anamorphic magnification at the surface of the window.